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United States Patent

[19]

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[54] **CAPSULAR BAG IMPLANTS WITH DUAL 360 RING STRUCTURES FOR INHIBITING POSTERIOR CAPSULAR OPACIFICATION**

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[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,366,501.

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[22] Filed: **Nov. 21, 1994**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 60,636, May 12, 1993, Pat. No. 5,366,501.

[51] **Int. Cl.⁶** **A61F 2/14; A61F 2/16**

[52] **U.S. Cl.** **623/4; 623/6**

[58] **Field of Search** **623/4, 5, 6; 606/107, 606/191**

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[57] ABSTRACT

A posterior capsular opacification-inhibiting device designed for in-the-bag implantation has a pair of 360° concentric endless rings having different diameters and interconnected by bridging elements disposing the plane of the outer ring anteriorly offset relative to the plane of the inner ring. The outer diameter of the outer ring is slightly larger than the inner diameter of the capsular bag at the equator thereof. When the device is properly implanted, the outer ring presses against the interior surface of the equatorial region of the capsular bag without unfurling the anterior capsular flap of the latter and constitutes a primary mechanical barrier to the migration of epithelial cells from the equatorial region toward the optic region of the posterior capsule, while the inner ring presses against the anterior surface of the posterior capsule a short distance away from the equatorial region and constitutes a secondary mechanical barrier to the migration of epithelial cells which may not have been blocked by the primary barrier, thereby to inhibit capsular fibrosis and posterior capsular opacification.

16 Claims, 3 Drawing Sheets

